Menus and Line Commands

The following topics describe all available menus, and the valid selections or line commands for each menu:

- Screens
- Main Menu
- Archived Tapes
- Environment Maintenance
- Working With Generated Jobs
- Library Corrections
- Display Jobs
- Reports
- Administration

Screens

Most System Maintenance Aid screens have one of the following two forms:

- Function menus present a selection list of possible functions. The user selects the function by entering the appropriate letter in the command line at the bottom of the screen.
- Object menus present a list of objects (e.g., available tapes, datasets on a tape). The user selects one of these objects **and** the function to be performed for this object by entering a "line command" next to the selected object. The list of possible line commands is displayed; the first two characters must be entered to issue the selected command.

Main Menu

The Main Menu provides the following functions.

Example screen:

```
 Enter a command, a direct command or press a PF-key.
   11:56:38                   *** SYSTEM MAINTENANCE AID ***              1999-06-09
   User:  User_ID                       - Main Menu -                     SMMENM11


                               Command    Description
                               -------    -----------

                                  T       Tapes

                                  E       Environments

                                  Z       Library Corrections

                                  R       Reports

                                  A       Administration



   Command ===>
   Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
         Help  Menu  Exit                                                    Canc
```

Note:
Direct Commands are described separately (see Direct Commands for further information).

T Tapes
   After receiving a tape from Software AG, the customer should load the control data from the tape into SMA
   using a batch job. SMA then "knows" this tape and can display information on the tape and the products and
   datasets on it. The tape-handling functions also control the copying of datasets from tape to disk.

E Environments
   This is the central part of SMA: The customer describes the environments where Software AG products are
   installed or are to be installed. This description consists of the products to be installed, the various parameters
   (SVC number, dataset names, etc.) and possibly locally adapted JCL and generated JCL. The JCL generation for
   a specified environment is also started within this function.

Z Library Corrections
   ZAPs and other corrections which were delivered on an Software AG tape are also loaded into SMA and can be
   applied or removed using SMA functions. This has the advantage of improved control and documentation about
   where and when corrections have been applied. It is also possible to enter ZAPs manually into SMA and work
   with them subsequently.

R Reports
   Reports can be created to document the customer's environments, tapes and datasets, and the installation of
   Software AG products.

A Administration
   Administrative functions are available to specify a number of global parameters, unused tapes and/or products
   can be removed from the SMA data file.

Archived Tapes

Tape and product dataset information, which has been loaded on the system, can be accessed using function T on the Main Menu.

Example screen:

```
 Enter a command, a direct command or press a PF-key.
   13:08:39                 *** SYSTEM MAINTENANCE AID ***           1999-03-09
   User:  User_ID                    - Main Menu -                   SMMENM11


                         Command    Description
                  +---------------------------------------+
                  !                                       !
                  !                   Tapes               !
                  !                                       !
                  !  Select dataset access method:        !
                  !                                       !
                  !      _ Access datasets by Volser       !
                  !                                       !
                  !       _ Access datasets by Product     !
                  !                                       !
                  +---------------------------------------+



    Command ===> t
   Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit                                              Canc
```

SMA prompts you to select how the information on datasets is to be accessed. Choices are made using either the volume serial number of the delivery tapes or by product code.

When "Access datasets by Volser" is selected, a list of tapes is displayed.

Example screen:

```
  There is only 1 page available.
   13:14:57                 *** SYSTEM MAINTENANCE AID ***              1999-03-09
   User:  User_ID                   - Archived Tapes -                   TPVOLM11

   Reposition to Volser: _____
   CMD  Volser  Op.Sys.   Description                              Date Loaded
    __   T16064  OS/MVS    SMA - QA - TAPE                          1994-02-18













    Command ===> _____

 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit  --    ++          -     +     Print             Canc
```

The user may select a tape by marking it with one of the following line commands:

- DA..Datasets
  A list of all datasets on this tape is shown. The user may select one or several datasets by marking it/them with a line command. From this point, the user may control the copying of datasets from tape to disk.
- JC..JCL-Generation
  JCL is generated for copying those datasets from the selected tape to disk which have been marked as "to be copied". Note that this JCL will also be generated automatically when JCL generation for product installation is requested in the "Environment" part of SMA.
- JO..Jobs
  This command displays the "Generated Jobs" screen for jobs generated with the JC..JCL Generation function.
- PR..Products
  A list of all products on this tape is shown. The user may select one of the displayed products. As a result, the list of datasets for this product, that are contained on this tape will be displayed.
- RE..Readme
  The tape may contain texts explaining the status or the purpose of the tape. Command RE will display this text.
- SE..Set-copied
  The dataset status "to be copied" is reset for all datasets on the selected tape.

Note:
In the Command Area, PF1 can be used to obtain Help, PF2 returns you to Main Menu, PF3 is used to exit, PF4 returns you to the top of list, PF5 returns you to the bottom of list, PF7 can be used to scroll to the previous page, PF8 to scroll to the next page PF9 is used to print a listing, and PF12 is cancel.

If PR (Products) was entered as a line command, press Enter, and the "Products On Tape" screen appears.

Example screen:

```
 Please mark one product.
   13:06:58               *** SYSTEM MAINTENANCE AID ***           1999-03-11
   User:  User_ID              - Products On Tape -                  TPVPRM11

   Reposition to Product: _____            Volser: T16064
     M     Product    Description
     _     ACI525     ADABAS CICS INTERFACE
     _     ADA525     ADABAS
     _     AII525     ADABAS IMS/DC INTERFACE
     _     AOS225     ADABAS ONLINE SERVICES
     _     EDT152     NATURAL EDITOR
     _     ESX132     ENTIRE SYSTEM SERVER INTERFACE
     _     NAF225     NATURAL ADVANCED FACILITIES
     _     NAT225     NATURAL
     _     NA2508
     _     NA2510
     _     NA2511
     _     NCI225     NATURAL CICS INTERFACE
     _     NDB231     NATURAL FOR DB2
     _     NDL225     NATURAL FOR DL/1


   Command ===>
  Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit  --    ++         -     +     Print             Canc
```

Mark the desired item to display datasets for a specific product.

If DA (Datasets) was entered as a line command for "Datasets on Tape", press Enter, and the "Product Datasets" screen appears.

This screen is explained later in section Product Datasets.

Access Datasets by Product

When "Access Datasets by Product" was selected from the "Archived Tapes" entry window, the following screen is displayed.

Example screen:

```
 Enter a command, a direct command or press a PF-key.
   13:17:11              *** SYSTEM MAINTENANCE AID ***           1999-03-09
   User:  User_ID                   - Main Menu -                  SMMENM11


                          Command   Description
                 +-----------------------------------------+
                 !                                         !
           +---------------------------------------------------+
           !                                                   !
           ! Operating system ...........: OS/MVS__            !
           ! Library group (optional) ...: _____  !
           !                                                   !
           +---------------------------------------------------+
                 !      _ Access datasets by Product      !
                 !                                         !
                 +-----------------------------------------+




    Command ===> t
  Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit                                                  Canc
```

Enter the Operating system, if not already displayed, and the Library group, if desired.

Use the Library group option only when selecting products where datasets/copies exist for a specific library group.

Press Enter, and the "Datasets by Product" screen appears, and a list of products for the selected tape is displayed.

Example screen:

```
  Please mark with 'x'.
    13:43:23              *** SYSTEM MAINTENANCE AID ***           1999-03-09
    User:  User_ID          - Tapes: Datasets by Product -             TPPRDM11

    Reposition to Product: _____          Op/Sys: OS/MVS   Lib-Group:
            M          Product          Description
            _          ACI525           ADABAS CICS INTERFACE
            _          ADA525           ADABAS
            _          AII525           ADABAS IMS/DC INTERFACE
            _          AOS225           ADABAS ONLINE SERVICES
            _          EDT152           NATURAL EDITOR
            _          ESX132           ENTIRE SYSTEM SERVER INTERFACE
            _          NAF225           NATURAL ADVANCED FACILITIES
            _          NAT225           NATURAL
            _          NA2508
            _          NA2510
            _          NA2511
            _          NCI225           NATURAL CICS INTERFACE
            _          NDB231           NATURAL FOR DB2
            _          NDL225           NATURAL FOR DL/1


   Command ===>
  Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit  --    ++          -     +     Print            Canc
```

This is a list of those products for which datasets are on the selected tape. The user may select the datasets of a product for processing by marking it with an "X".

If a product is contained on multiple tapes, the following screen appears.

Example screen:

```
  There is only 1 page available.
    11:08:25            *** SYSTEM MAINTENANCE AID ***        1999-04-12
    User:  User_ID         - Tapes:  Volsers with Product -       TPPRDM21

    Reposition to Volser: _____        Op/Sys: OS/MVS   Lib-Group:
    M  Volser   Description                                      Creation
    _  T10857   test                                             1993-03-19
    _  T10958   NAT225 and Co-products                           1993-05-27

















    Command ===>
   Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit  --    ++          -     +    Print              Canc
```

Mark desired item with "X" to display datasets.

Product Datasets

When a product was marked on the "Datasets by Product" screen or when a product was selected on the "Volsers with Product" screen, the list of datasets on the selected tape is displayed.

Example screen:

```
 There is only 1 page available.
  13:52:11                 *** SYSTEM MAINTENANCE AID ***              1999-03-09
  User:  User_ID                  - Product Datasets -                 TPPDSM11

  Reposition to Dataset: _____          Volser: T16064
  Cmd  Dataset Name      Description                    On Disc As            C
   __    NAT225.ERRN      Error messages file
   __    NAT225.EXPL      Example INPL file
   __    NAT225.INPL      INPL dataset
   __    NAT225.JOBS      MVS Example jobs for installat
   __      *      COPY IN GROUP: TSTLIB                 TSTLIB.NAT225.JOBS     Y
   __    NAT225.LOAD      MVS Load dataset              SAGLIB.NAT225.LOAD
   __      *      COPY IN GROUP: TSTLIB                 TSTLIB.NAT225.LOAD     Y
   __    NAT225.SRCE      MVS Source dataset
   __      *      COPY IN GROUP: TSTLIB                 TSTLIB.NAT225.SRCE     Y
   __    NAT225.SYSF      System file




  Command ===>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Menu  Exit  --    ++          -     +     Print             Canc
```

Select one or several datasets for processing by marking it or them with one of the following commands:

- DE.. Delete-Copy
  This command deletes the table entry describing the copy of a dataset (library). The record pointing to the Software AG delivery group cannot be deleted.
  Note:
  This command does not delete the dataset itself; only SMA's table entry for this dataset is deleted.

- MA.. Mark-For-Copy
  The dataset is marked as "to be copied". During the next JCL generating step, the JCL required for copying from tape to disk will be generated for all datasets on all tapes which have been marked.
- MO.. Modify
  A description of the selected dataset is shown. Some of the fields of this dataset description can be changed by the user.
- RE.. Reset-Mark
  This command resets the status of a dataset from "marked to be copied" to "not marked".

Dataset Parameters

When a dataset is selected via the command MO (Modify) from the "Product Datasets" screen, the dataset parameters are displayed.

Example screen:

```
 Modify dataset parameters.
   12:09:48              *** SYSTEM MAINTENANCE AID ***              1999-03-10
   User:  User_ID                - Copy Parameters -                TPCDSM11


   Volser .....   T16064
   Name on tape  NAT225.I008

   Description ........   008.INPL correction
   Symbolic Dataset Name  NAT225.I008
   Dataset Organization   PS
   Size (Kilo byte) ....  40
   Marked For Copy .....
   Dataset created on ..  93-11-04    16:01:05
   Dataset copied on....



   Library Grp    SAGLIB_____
   Name on Disk   _____
   Disk .......   _____
   Device Type    _____

   Command ===>
  Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit                                                   Canc
```

The following dataset parameters which are used when copying datasets from tape to disk may be changed:

- Library Group
- Name on Disk
- Disk where the dataset is stored
- Device Type of this disk

If the dataset has been marked "to be copied", SMA fills the above fields with default values if they are blank. See Step 2: Copying Datasets from Tape to Disk in section Using System Maintenance Aid for the definition of the default values.

Note that SMA uses "Name on Disk" to determine whether the dataset resides on disk. A blank name indicates that the dataset is currently not available on disk.

Environment Maintenance

When function E is chosen in the Main Menu, the list of all environments is displayed.

Example screen:

```
  There is only 1 page available.
    12:36:23                 *** SYSTEM MAINTENANCE AID ***            1999-03-10
    User:  User_ID              - Environment Maintenance -              ENMENM11

    Reposition to Environment: _____
    Cmd   Environment   Op.Sys.   Description
    __    BS2000        BS2000    DEFAULT-ENVIRONMENT FOR BS2000
    __    BS2TST        BS2000    DEMO FOR BS2000
    __    OS/MVS        OS/MVS    DEFAULT-ENVIRONMENT FOR OS/MVS
    __    TEST          OS/MVS    DEMO AND INTRODUCTION
    __    UPROD         OS/MVS    USER PRODUCTION
    __    APPL          OS/MVS    APPLICATION DEVELOPMENT








    Command ===>
    Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
          Help  Menu  Exit  --    ++          -     +     Print             Canc
```

The user may select an environment by marking it with one of the following line commands:

- CH..Check Environment
  This command executes a number of checks to find out incorrect specifications, for example, when a
  subproduct of Natural (e.g., Con-nect) is marked for installation, but Natural itself is neither installed nor "to be
  installed". Although many checks are performed, it is not possible to detect every inconsistency of parameter
  values.
- CJ..Copy Environment Jobs
  This command copies all the jobs which exist in this environment. You can specify a new name for the job
  group and assign a common prefix for the job names.
- CO..Copy Environment
  This command creates a new environment by copying an existing one. The user is prompted for a short
  descriptive text for the environment. The first line of this description will be used in the display-list of all
  environments.
  The following parts of the environment are copied:
    ○ old and new values of all parameters
    ○ JCL skeletons, if the existing environment is not a default environment
    ○ list of all available products, with the status of the products set to "not installed".
- DE..Delete Environment
  This function deletes the environment from SMA's control file after the user has been prompted to confirm the
  request. Only SMA internal data is deleted, nothing happens "outside" of SMA, i.e., there is no "de-install"
  feature in SMA.
  A default environment cannot be deleted.
- JC..JCL-Generation
  This command starts the JCL generator. See section JCL Generation below for a description of this process. If
  an error is detected, it can be corrected with the MODIFY command.

- JO..Jobs
  This command displays the "Generated Jobs" screen for the current environment.
- MO..Modify Environment
  This line command displays the screens in which the user can describe the customer's installation of Software AG products (see section Modifying an Environment below).
- SA..Saved Environment Jobs
  Invokes the Saved Jobs for Environment menu to process the saved jobs whose group name is an environment name.
- SE..Set Installed
  This command resets status information:
    ○ All products which have the status "to be installed" are marked as "installed".
    ○ Old parameter values are replaced by new values if specified.
    ○ The status of linked modules which have been changed by SMA's "Library Correction" function is reset from "to be relinked" to "ok".

  This function is useful in two situations:
    ○ After describing an existing environment, the user calls this function to document that the products in this environment are already installed.
    ○ The last job generated during JCL generation executes this function in batch. Instead of using this job, the user may execute this function in dialog after successful execution of all generated jobs (except this last one).
- TE..Text Description
  The descriptive text for this environment can be modified. When this function is selected from the "Modify Environment" screen, a window appears providing four input lines. On these four lines, the purpose of each environment can be described in a short text. These lines appear in the reports about environments and help the user keeping track of input into SMA. The first of these four lines of text will also be displayed in the "Environment Maintenance" screen.
- CL..Clone Environment
  This command duplicates an environment. It creates a new environment by copying an existing one. The user is prompted for a short descriptive text for the environment. The first line of this description will be used in the display-list of all environments.
  The following parts of the environment are copied:
    ○ old and new values of all parameters
    ○ JCL skeletons, if the existing environment is not a default environment
    ○ list of all available products, with the same status.
- RN..Rename Environment
  This command renames an environment.

JCL Generation

The JCL generator is activated using the line command JC (JCL Generation) from the "Environment Maintenance" screen. JCL generation in dialog mode consists of the following steps:

1. The JCL generator first evaluates which parameter values are new and what products are "to be installed", and produces a list of all installation steps required for these changes. In this step, a lot of control data must be evaluated, thus it can take some time for its completion.
2. The "Installation Guide" indicating the generated jobs and steps is displayed. This list can be printed by pressing PF9. The printout will be useful as a checklist during the process of submitting and executing the generated jobs later on.
   By pressing Enter, the next page of this report can be displayed. PF6 can be used to skip the display and go on with JCL generation.
3. JCL generation itself starts. The job and step number currently generated is displayed at the bottom of the screen.

Note:
If Enter or a PF key is pressed during this process, an error may occur, and JCL generation will be interrupted.

After JCL generation has been completed, the number of errors detected during the generation is displayed. If this number is not equal to 0, the user should check whether a user modification of a JCL skeleton caused an error. If not, Software AG support personnel must be contacted.

Modifying an Environment

When the line command MO (MODIFY) is entered from the "Environment Maintenance" screen, the data describing the installation is displayed.

Environment Maintenance screen:

This menu offers the following options:

- Modify parameters accessed by name
  The list of all parameters in alphabetical order will be displayed for this environment by name, for displaying and modifying their values.
- Modify active parameters accessed by name
  This function is identical with the function "Modify Parameters accessed by name" except that only the *active* parameters are accessed.
  Active parameters are those parameters which were referenced during a JCL generation. This internal flag was introduced with SMA version 1.3.1, therefore, before the first JCL generation was executed with SMA version 1.3.1., all existing parameters are considered "inactive".
- Modify parameters accessed by group
  The parameters are combined in groups. If the user selects one of these groups on the "Parameter Group" screen (see below), the parameters of this group are shown, and new values may be entered.
- Modify active parameters accessed by group
  This function is identical with the function "Modify Parameters accessed by group" except that only the *active* parameters are accessed.
- Install Products
  The list of products will be displayed for selection of the products to be installed in this environment.
- Install Corrective IUPD (INPLs,ERRNs)
  A list of those corrections, which can be installed into a Natural system file, is displayed for selection. Typically, these are INPL problem tapes.
- Modify JCL Skeletons
  When this function is selected, the list of JCL skeletons available is displayed.

Modify Parameters / Active Parameters Accessed by Name

When this function is selected from the "Environment Maintenance" screen, the list of parameters appears, indicating the parameter name and value.

The parameters have two values: the installed value and the new value. The new value will be taken during the next JCL generation, and it will replace the installed value with the next SET-INSTALLED command.

A new value may be entered in the corresponding column, or one of the line commands used with the function "Modify Parameters accessed by Name", which are restricted to the selected group.

Example screen:

```
 Enter new value(s) or line command(s)
   12:55:48              *** SYSTEM MAINTENANCE AID ***           1999-03-10
   User:  User_ID            - Modify Parameter Values -            ENPRMM11

   Reposition to Parameter: _____    Env.: TEST
   Cmd   Name of Parameter     Installed Value        New Value
   __    ACF2                                      _____
   __    ADA-CREATE-NEW-DB     Y                   _____
   __    ADA-INSTAL-RAI        N                   _____
   __    ADA-RAI-MINGENS       5                   _____
   __    ADACICS               ADABAS              _____
   __    ASIZE                 32                  _____
   __    ASM-DDRESULT          SYSLIN              _____
   __    ASMBLR                IEV90               _____
   __    ASYNC                                     _____
   __    BPID                  0                   _____
   __    BTSO-BATCH            NDBBTSO             _____
   __    CDYNAM                10                  _____
   __    CICS3                                     _____
   __    CICS3-3                                   _____

   Command ===>
  Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit  --    ++          -     +    Print             Canc
```

The user may enter a new value in the corresponding column or enter one of the line commands described below.

- DI.. Display
  A description of the selected parameter is displayed. (Understanding the complete set of parameters is more easily accomplished by report "P" available in SMA's "Reports" branch.) If this command is used, a screen appears.
- LO.. Long Value
  If the new value for a parameter does not fit into the corresponding column, the command LONG must be used. A window is displayed, allowing for the input of values with up to 72 characters. If this command is used, a window appears.
- SD..Set Default
  Sets the actual value to the value specified in the default environment.
- SE..Set Blank
  This command is used to set the new value of a parameter to blank. (This must be done with this command to tell the JCL generator that this blank really is the new value.)
- SI..Set Inactive
  Resets the internal active flag to inactive.
- TV..Transfer Value
  This command is only valid in the default environment. It transfers the values specified in the default environment to all other environments.

The parameters have two values: the installed value and the new value. The new value will be taken during the next JCL generation, and it will replace the installed value with the next SET-INSTALLED command.

Modify Parameters / Active Parameters Accessed by Group

When this function is selected from the Environment Maintenance screen, the list of parameter groups appears.

Parameter Groups screen:

```
  12:56:33                   *** SYSTEM MAINTENANCE AID ***              1999-03-10
   User:  User_ID                  - Parameter Groups -                  ENPRMM21

    Reposition to Group: _____                      Environment: OS/MVS
                                    M        Group
                                    _        ADABAS
                                    _        BASIC
                                    _        DCPROD
                                    _        FILNUM
                                    _        LIBGRP
                                    _        NAF
                                    _        NAT
                                    _        NATPRM
                                    _        NCI
                                    _        NCO
                                    _        NDB
                                    _        NDL
                                    _        NII
                                    _        NTI


    Command ===>
   Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
         Help  Menu  Exit  --     ++          -     +     Print             Canc
```

Mark one of the existing Groups. A screen similar to that previously described for "Modify Parameters / Active Parameters Accessed by Name" appears.

Install Products

When "Install Products" is selected from the "Environment Maintenance" screen, the list of all products is displayed.

Example screen:

```
 Enter a command, a direct command or press a PF-key.
   16:12:17              *** SYSTEM MAINTENANCE AID ***              1999-06-07
   User:  User_ID                 - Product List -                  ENPRDM11

   Reposition to Product: _____           Environment: TEST
   Cmd   Product   Description                          Status
    __   NCI233    NATURAL CICS INTERFACE               installed
    __   NCI234    NATURAL CICS INTERFACE               to be installed
    __   NCI312    NATURAL CICS INTERFACE               -
    __   NCL211    NATURAL CONSOLE MANAGEMENT           -
    __   NCL212    ENTIRE EVENT MANAGEMENT              -
    __   NCO233    NATURAL COMPLETE INTERFACE           -
    __   NCO234    NATURAL COMPLETE INTERFACE           -
    __   NCO311    NATURAL COMPLETE INTERFACE           -
    __   NCO312    NATURAL COMPLETE INTERFACE           -
    __   NDB233    NATURAL DB2 INTERFACE                -
    __   NDB234    NATURAL FOR DB2                      -
    __   NDB312    NATURAL FOR DB2                      -
    __   NDL233    NATURAL DL/1 INTERFACE               -
    __   NDL234    NATURAL DL/1 INTERFACE               -


  Command ===>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Menu  Exit  --    ++         -     +     Print             Canc
```

In this screen, all products are listed which are known in this SMA file. This list of products is the same for all environments, but the status of each product may differ between environments.

The user may select one or several products by marking it or them with one of the following commands:

- IN.. Install
  The product receives the status "to be installed". The products having this status will actually be processed by the next JCL generation for this environment.
- RE.. Reset Status
  This command removes the status "to be installed". It is used to reset this status if the INSTALL command has been issued inadvertently.
- UN.. Un-install
  The status "installed" is set to "-", meaning "not installed". Note that in the present version of SMA no JCL to "un-install" a product is generated. This command only causes the status to be changed in SMA internal tables and has no effect "outside" of SMA.
- RM..Show Readme
  Displays the Readme file of the product. This file contains information about the installation of these products using SMA.

Install Corrective IUPD - INPLs and ERRNs

When "Install Corrections in System files (INPLs, ...)" is selected from the "Environment Maintenance" screen, the list of all corrections for Natural system files is displayed.

Example screen:

```
 Enter a command, a direct command or press a PF-key.
   14:49:18              *** SYSTEM MAINTENANCE AID ***            1999-06-13
   User:  User_ID                - Correction List -              ENPRDM11

   Reposition to Correction : _____    Environment: TEST
   Cmd   Correct.  Description                              Status
    __   P06027    PROBLEM SOLUTION INPL                    to be installed
    __   P07668    PROBLEM SOLUTION INPL FOR SMA111         -
    __   P09489    ADABAS TEXT RETRIEVAL 1.3.3              -
    __   P16005    PROBLEM SOLUTION INPL                    -
    __   P19509    PROBLEM SOLUTION FOR P119509             -
    __   P19756    PROBLEM SOLUTION FOR P119756             -
    __   P22126    PROBLEM SOLUTION FOR P122126             -
    __   P24378    PRD322 SOLUTION TO PROBLEM: 124378       -
    __   P24805    SAT211 SOLUTION TO PROBLEM: 124805       -
    __   P97531    (=NE2531)NSC225 CORRECTIVE TAPE-31       -
    __   P97602    (=NE2602)NSC226 CORRECTIVE TAPE-02       -
    __   P97603    (=NE2603)NSC226 CORRECTIVE TAPE-03       -
    __   P97605    (=NE2605)NSC226 CORRECTIVE TAPE-05       -
    __   P97612    (=NE2612)NSC226 CORRECTIVE TAPE-12       -


   Command ===>
  Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
         Help  Menu  Exit  --    ++         -     +     Print            Canc
```

In this screen, all corrections are listed which are known in this SMA file. This list of corrections is the same for all environments, but the status of each may differ between environments.

The user may select one or several corrections by marking it/them with one of the following commands:

- IN.. Install
  The correction receives the status "to be installed". The corrections having this status will be processed by the next JCL generation for this environment.
- RE.. Reset Status
  This command removes the status "to be installed". It is used to reset this status if the INSTALL command has been issued inadvertently.
- UN.. Un-install
  The status "installed" is set to "-", meaning "not installed". Note that in the present version of SMA no JCL to "un-install" a correction is generated. This command only causes the status to be changed in SMA internal tables and has no effect "outside" of SMA.

Modify JCL Skeletons

After selection of this function from the "Modify Environment" screen, a list of all skeletons available, including a short explanation for each skeleton, is displayed.

Example screen:

```
 Enter a command, a direct command or press a PF-key.
   12:52:36                  *** SYSTEM MAINTENANCE AID ***              1999-03-10
   User:  User_ID                  - Modify JCL Skeletons -               ENSKLM11

   Reposition to Skeleton: _____    Environment: OS/MVS
   Cmd E    Skeleton Name        Version  Description
   __       ACI-CMDLNK           93-03-09 COMMAND LEVEL LINK ROUTINE ASSEMBLY
   __ x     ACIINSTR             93-03-29 INSTRUCTIONS FOR ADABAS CICS INTERFACE
   __       ADA-FILES            93-03-29 INCLUDE: DD-CARDS FOR THE ADABAS-FILES
   __       ADACPL               92-12-10 ADABAS COUPLE FILES (V5)
   __       ADADEF5              92-12-10 ADABAS DEFINE DATABASE
   __       ADAEXPL              92-12-10 ADABAS EXAMPLES WITHOUT FILES
   __       ADAEXPL-F            92-12-10 ADABAS EXAMPLES WITH FILES
   __       ADAFRM-RAI           93-04-01 ADABAS ALLOCATE AND FORMAT RAI-FILE
   __       ADAFRM5              92-12-10 ADABAS ALLOCATE AND FORMAT DATABASE-FILE
   __       ADALIBS              92-12-10 INCLUDE: DD-CARDS FOR ADABAS
   __       ADALOD               93-08-09 ADABAS LOAD FILE (V5)
   __       ADAMAT               92-12-10 INCLUDE: ADABAS MIGRATION AID TABLE
   __       ADANUC5              92-12-10 ADABASE NUCLEUS JOB
   __       ADARAI-INST          93-03-29 INSTRUCTIONS FOR ADABAS REFLECTIVE DATAB

   Command ===>
  Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit  --    ++          -     +     Print             Canc
```

Note:
The skeletons which have already been modified for this environment are marked with an "X" in column "E".

The JCL skeletons are used during JCL generation to expand the installation steps into executable JCL. These JCL skeletons are supplied by Software AG, but they may be modified by the user. Modifications of JCL skeletons in the default environment are valid for all other environments, whereas modifications of JCL in a user environment are valid for this environment only.

The following line commands may be selected and used:

- CO.. Copy Skeleton
- DE.. Delete User Skeleton
- DI.. Display Skeleton
- MO.. Modify Skeleton
- PR.. Print Skeleton

Modify Skeleton

When the line command MO (Modify Skeleton) is entered on the "Modify JCL Skeletons" screen, the Natural editor for modifying the JCL Skeleton appears.

Example screen:

```
  Command ===>                                                       > +
   Top    Environment: TEST                   Skeleton: ADADEF5           ....7..
     0010 //*
     0020 //* ADABAS ADADEF UTILITY
     0030 //*
     0040 //DEF#S-SEQ# EXEC PGM=ADARUN
     0050 //STEPLIB   DD DSN=#D-DSN-D(ADA&&&.LOAD)#,DISP=SHR
     0060 #I-ADA-FILES#
     0070 //DDPRINT   DD SYSOUT=#V-SYSOUT#
     0080 //DDDRUCK   DD SYSOUT=#V-SYSOUT#
     0090 //MPMDUMP   DD SYSOUT=#V-SYSOUT#
     0100 //DDCARD    DD *
     0110 ADARUN DB=#V-DBID#,DE=#V-DB-DEVICE#,SVC=#V-SVC#,PROG=ADADEF
     0120 //DDKARTE   DD *
     0130 ADADEF DEFINE
     0140 ADADEF        DBIDENT=#V-DBID#
     0150 ADADEF        DBNAME=#V-DBNAME#
     0160 ADADEF        MAXFILES=#V-DB-MAXFILS#
     0170 ADADEF        ASSODEV=#V-DB-DEVICE#
     0180 ADADEF        ASSODEV=#V-DEVICE-A2#
     0190 ADADEF        ASSODEV=#V-DEVICE-A3#
     0200 ADADEF        ASSODEV=#V-DEVICE-A4#
          ....+....1....+....2. Press PF11 to edit conditions  No.of.Lines:    44
```

Note:
Use the "," as the escape character for line commands. Use PF11 to shift the screen to the right to view line conditions. Use PF10 to shift back (toggle effect).

Refer to JCL Skeletons for a further explanation of skeleton modification.

Working with Generated Jobs

If the function JO (Jobs) is entered in the "Environment Maintenance" screen after JCL generation has been performed, the list of all generated jobs is displayed.

Example screen:

```
  There is only 1 page available.
   11:13:50             *** SYSTEM MAINTENANCE AID ***          1999-04-12
   User:  User_ID          - Generated Environment Jobs -            ENJOBM11

   Reposition to Job: _____            Environment: TEST
    Cmd      Job         Description                         Status
    __       Report      Installation Guide                  Open
    __       T614        COPY DATASETS FROM TAPE             Submitted
    __       P060        READ ME; DO NOT SUBMIT              Open
    __       I008        ALLOCATE DATASETS                  Submitted
    __       I009        COPY DATASETS                       Submitted
    __       I051        MIGRATION JOB                       Submitted
    __       I055        ASSEMBLIES OF BATCH NATURAL        Submitted
    __       I060        PARM + LINK BATCH NATURAL          Submitted
    __       I061        INPL NATURAL APPLICATIONS          Submitted
    __       I070        PREPARATIONS ONLINE NATURAL        Submitted
    __       I080        PARM + LINK ONLINE NATURAL         Submitted
    __       I100        READ ME; DO NOT SUBMIT              Open
    __       I200        SETUP - JOBS                        Submitted
    __       I999        SMA COMMIT AND ENV.REPORT          Open

   Command ===>
   Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit  --    ++          -     +     Print             Canc
```

- MO.. Modify Job
  The generated job is displayed. The user can browse through the generated job, using PF7 and PF8 to scroll backwards and forwards, print the job, or modify it before submitting it to the operating system for execution. Usage of the editor for modification is explained in Using the Editor and Help Facility.
  Note:
  SMA is designed to make changes in the generated jobs unnecessary. If frequent changes of the jobs are required, the job skeletons which are used during JCL generation should be changed. Refer to JCL Skeletons or the appropriate report to find out which skeletons are involved.

- SU.. Submit Job
  The generated job is passed to the operating system for execution. The status and successful execution of a job are **not** checked by SMA; this must be done by the user. Within SMA, a job can have the status:
  - OPEN: The job has been generated and has not yet been submitted.
  - SUBMITTED: The job has been submitted. It is possible to submit a job, change it and re-submit it.

  Note that the order of submitting the generated jobs is checked: A job may only be submitted if all jobs preceding this job in the list of jobs have already been submitted.

- DE.. Delete Job
  With this command, a job can be deleted manually by the user. Normally, the stored generated jobs should be deleted by the user after successful execution of all jobs.
- CO.. Copy Job
  Jobs of an environment must be deleted before the next JCL generation. A user who wishes to keep a job (as an example or for later usage) may enter the COPY command for this job. SMA asks for a new name and "job group". If the "Saved Jobs" function is entered from SMA's Administration Menu, the copied job can be found under the specified name.
- PR.. Print Job
  The selected job will be printed.

Library Corrections

In this section of SMA, you control how corrections (i.e., ZAPs, Source Changes, and Module Replacement) are applied to the Software AG Product Libraries.

When function Z is chosen in the Main Menu, a list of all library groups is displayed.

Example screen:

```
  Enter a command, a direct command or press a PF-key.
    12:27:40                  *** SYSTEM MAINTENANCE AID ***              1999-06-09
    User:  User_ID      - Correction List of Library Groups -           COLBGM11


    Reposition to Op.Syst:  _____  Lib.Group: _____
              Cmd   Op. System  Library Group
              __    BS2000       $SAG
              __    BS2000       SAGLIB
              __    OS/MVS       TSTLIB
              __    OS/MVS       SAGLIB














    Command ===>
   Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit  --    ++    AddZ  -     +     Print             Canc
```

The user may select a correction for a library group by marking it with one of the following line commands:

- DI.. Display Corrections
  All possible corrections for the selected library group are displayed. If this command is used, the screen "ZAPs and Source Changes" appears.
- JC..JCL-Generation
  This command performs JCL generation for corrections in the library group with the status "to be applied" or "to be undone". See JCL Generation in this section for a description of this process.
- JO..Jobs
  This command displays the "Generated Jobs" screen for this library group.
- SE..Set-Applied
  This command resets status information: All corrections within the library group with the status "to be applied" or "to be undone" receive the status "applied" or "undone" with this command.

Display Corrections

If DI (Display Corrections) is entered as a line command in "Correction List of Library Groups" a screen listing all ZAPs and source changes for a library group appears:

```
  13:31:17                    *** SYSTEM MAINTENANCE AID ***               1999-07-08
   User:  TSL                  - Zaps and Source Changes -                  COZAPM11

   Reposition to Change: _____     Library Group: SAGLIB
   Cmd   Change No.   Tp.  Dataset Name              Ed. Status
   __    AN52445      Z    SAGLIB.ADA522.LOAD         Y
   __    AN52455      Z    SAGLIB.ADA525.LOAD         Y
   __    AN52456      Z    SAGLIB.ADA522.LOAD         Y
   __    AN52457      Z    SAGLIB.ADA522.LOAD         Y  Applied
   __    AN52461      Z    SAGLIB.ADA522.LOAD         Y
   __    AN52494      Z    SAGLIB.ADA522.LOAD         Y
   __    AN52516      Z    SAGLIB.ADA522.LOAD         Y  Applied
   __    AN52537      Z    SAGLIB.ADA522.LOAD         Y  Applied
   __    AN52683      Z    SAGLIB.ADA523.LOAD         Y
   __    AN52728      Z    SAGLIB.ADA524.LOAD         Y
   __    AN52729      Z    SAGLIB.ADA524.LOAD         Y
   __    AN52857      Z    SAGLIB.ADA524.LOAD         Y
   __    AN52954      Z    SAGLIB.ADA525.LOAD         Y
   __    AN52966      Z    SAGLIB.ADA525.LOAD         Y  To Be Applied


   Enter a command, a direct command or press a PF-key.
    Command ===>
   Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
         Help  Menu  Exit  --    ++          -     +     Print              Canc
```

Note:
The field "Reposition to Change" at the top of the screen provides the possibility to start the list of changes at the specified change. You can use this repositioning to show the corrections for a specific product (due to the naming conventions of Software AG product corrections).

This list shows the dataset names of the affected libraries, and gives the following information per correction:

- number of the change, used for identification purposes
- its type (Z: ZAP, S: source change, L: load module replacement)
- status of the change

The status of a change may be any of the following:

"to be applied"	The line command APPLY has been entered for this correction, but the direct command SET-APPLIED has not yet been executed.
"applied"	The line command APPLY has been issued for this correction, and SET-APPLIED has been executed.
"to be undone"	The line command UNDO was entered for this correction, but the direct command SET-APPLIED was not executed. The generated job will contain the ZAP in a "reverse" form, where all VERIFY(s) are converted to REPLACE(s) and vice versa.
"undone"	The line command UNDO was entered for this correction, and SET-APPLIED was executed.
blank	The correction was neither applied nor undone.

The following line commands are possible:

- AP.. Apply Correction
  Sets the status for this change from blank or "undone" to "to be applied".
- CO.. Copy a Correction
  A window appears asking for target parameters for copying the correction.
- DE.. Delete Correction
  The change in the selected library group is deleted from SMA.
- DI.. Display Correction
  The selected change is displayed. If this command is used, a screen showing the text of the correction appears.
- MO.. Modify Correction
  This allows editing of the change. This command is only valid if there is a "Y" in the "Ed" column in the list of changes. If this command is used, the screen "Modify a Correction" appears.
- RE.. Reset Status
  This command sets the status from "to be applied" to blank or from "to be undone" to "applied".
- UN.. Undo Correction
  Sets the status from "applied" to "to be undone".

Note:
The line commands MODIFY and DELETE are only possible if the change is not applied in any library group.

Modify Correction

If MO (Modify Correction) is entered as a line command the following screen appears:

```
 Please edit. (Escape character for line commands is ",")
  Command ===>                                                        > +
  Top    Change: AN52494      Type: Z DSN: ADA522.LOAD      ....6....+....7..
    0010 *  ZAP NO:    AN52494
    0020 *  PRODUCT:   ADA522
    0030 *  MODULES:   ADANC2/ADANC9
    0040 *  KEYWORDS:  ADANET
    0050 *  PROBLEM:   A PET COMMAND (PRILIMINARY ET) IS ONLY PERMITTED
    0060 *             IN AN ADANET ENVIRONMENT, NOT PERMITTED ON A NUCLEUS
    0070 *             RUNNING WITH ADANET=ISO.
    0080 *
    0090 NAME ADANC2
    0100 VER 0080 0002
    0110 VER 009A 0000
    0120 VER 1108 92D7,CEB6,9205,CEB4,95C5,C023,4770,904E
    0130 VER 1118 D203,C060,C03C,D201,C078,C01A,5810,AC54
    0140 VER 1128 0521,9680,E053
    0150 REP 1108 95C9,A2C4,4770,9042,9240,C022,47F0,905C
    0160 REP 1118 92D7,CEB6,9205,CEB4,D203,C060,C03C,5810
    0170 REP 1128 AC54,05BB,55C2
    0180 REP 009A 0040
    0190 CHECKSUM B59B781F
    0200 IDRDATA AN52494
         ....+....1....+....2....+....3....+....4....+....5...No.of.Lines:   33
```

With this screen, you can modify the DSN of the library where this correction is to be applied. In addition, you may modify the text of the correction using the standard editor commands (see Using the Editor and Help Facility).

Display Jobs

If the function JO (Jobs) is entered as a line command in "Correction List of Library Groups", a screen with all generated correction jobs appears.

Example screen:

```
  14:57:59                *** SYSTEM MAINTENANCE AID ***          1999-06-13
   User:  User_ID             - Generated Correction Jobs -            COZJBM11

   Reposition to Job: _____             Environment: TEST
     Cmd        Job           Description                        Status
     ___        Z010          SAGLIB:APPLY ZAPS                  Open




   Command ===>
   Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit  --    ++          -     +     Print             Canc
```

The following line commands may be selected and used:

- CO.. Copy Job
  A user who wishes to keep a job (as an example or for later usage) may enter the COPY command for this job. SMA asks for a new name and "job group". If the "Saved Jobs" function is entered from SMA's Administration Menu, the copied job can be found under the specified name.
- DE.. Delete Job
  With this command, a job can be deleted manually by the user. Normally, the stored generated correction jobs should be deleted by the user after successful execution of all jobs.
- MO.. Modify Job
  The generated correction jobs are displayed. The user can browse through the generated job, using PF7 and PF8 to scroll backwards and forwards, print the job, or modify it before submitting it to the operating system for execution. Usage of the editor for modification is explained in Using the Editor and Help Facility.
  Note:
  SMA is designed to make changes in the generated jobs unnecessary. If frequent changes of the jobs are required, the job skeletons which are used during JCL generation should be changed. Refer to JCL Skeletons or the appropriate report to find out which skeletons are involved.
- PR.. Print Job
  The selected job will be printed.
- SU.. Submit Job
  The generated job is passed to the operating system for execution. The status and successful execution of a job are NOT checked by SMA; this must be done by the user. Within SMA, a job can have the status:
  - ○ OPEN: The job has been generated and has not yet been submitted.
  - ○ SUBMITTED: The job has been submitted. It is possible to submit a job, change it and re-submit it.

Add a Change

When the PF6 key is pressed in the "Correction List of Library Groups", the following screen is displayed:

```
   16:16                    *** SYSTEM MAINTENANCE AID ***              1999-06-09
    User: User_ID                  - Add a Correction -                  COADZM01



                             Correction number....: _____


                             Type of correction...: _ < Z - Zap          >
                                                      < S - Source Change >
                                                      < L - Replace Libr. Member >

                             Operating system.....: OS/MVS__


                             Symbolic dataset name: _____



     Command ===>
    Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
          Help  Menu  Exit                                                  Canc
```

In this screen, a correction which is not available in a machine-readable form can be entered. The following must be specified:

- Correction number:
  Number of the change, must be unique.
- Type of correction:
  Type: Z = ZAP, S = source change, L = replace library member.
- Operating system:
  Name of the operating system.
- Symbolic dataset name:
  Symbolic name of a library as shown in the "Tapes" part of SMA.

Following this screen, the function "Modify Corrections" is invoked, allowing the user to enter the text for the new correction manually.

Reports

When function R is entered in the Main Menu, the following screen is displayed:

This menu provides a number of choices for SMA's reporting facility. Two groups of SMA reports are available:

- Reports about the installation data (tapes, environments, parameters, ZAPs)
- Reports about SMA's knowledge on how to install Software AG products (Product Installation Table, usage of parameters, dependencies between products).

The different reports are also available via the REP... direct commands which are described in Printing Reports.

Administration

When function A is entered in the Main Menu, the following screen is displayed:

The following administrative functions are available:

- Global Parameters
  Maintain parameters which do not belong to a specific environment.
- Saved Jobs by group / by name
  Maintain, modify, and submit jobs contained in the "saved" pool. These jobs were created with the line command Copy (CO) from generated jobs or Copy Environment Jobs (CJ) in the Environment Maintenance function.
- SMA Profile
  Select some general default values.
- Tabload
  Maintain and submit job to LOAD table data.
- Unused Products
  The products which are not installed in any environment are shown, and the user may select one or several of these products for deletion from SMA's internal tables. (Note that this function deletes nothing outside of SMA's tables)
- Unused Tapes
  When a product is deleted, the dataset information for this product is also deleted. This may result in tapes for which no dataset information is available. The user may select such tapes for deletion from SMA's internal tables.

Global Parameters

When "Global Parameter" is selected from the "Administration" screen, the following screen is displayed:

```
  There is only 1 page available.
   16:21:16                  *** SYSTEM MAINTENANCE AID ***            1999-06-07
   User:  User_ID         - Modify Global Parameter Values -            ADPARM11

   Reposition to Parameter: _____
   Cmd   Name of Parameter        Value
   __    MVS-LIB-ALLOC-TYPE       TRK_____
   __    MVS-LIB-EXPIRATION       99365_____
   __    MVS-LIB-GROUP            SAGLIB_____
   __    MVS-LIB-GROUP-UNIT       3380_____
   __    MVS-LIB-GROUP-VOL        SAGVOL_____
   __    MVS-NAT-BATCH            NATBAT22_____
   __    MVS-DSN-USER-LOAD        OPS.PROD.LOAD_____
   __    MVS-DSN-ADA-LOAD         OPS.ADA5.LOAD_____
   __    MVS-SVC                  247_____
   __    MVS-DB-DEVICE            3380_____




   Command ===>
  Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit  --    ++         -     +     Print             Canc
```

The user may enter a new value or one of the line commands described below.

- DI.. Display
  A description of the selected parameter is displayed. (Understanding the complete set of parameters is more easily accomplished by report "P" available in SMA's "Reports" branch.) If this command is used, a screen appears.
- LO.. Long Value
  If the new value for a parameter does not fit into the corresponding column, the command LONG must be used. A window is displayed, allowing for the input of values with up to 72 characters. If this command is used, a pop-up window appears.

These global parameters are used whenever parameters are needed which are not fully environment dependent. In particular, this concerns:

The "commit" skeletons / SMA-COMMIT, ZAP-COMMIT

These skeletons invoke a batch Natural nucleus which is frequently different from the one generated in the particular user environment.

The following global parameters are used in these skeletons:

- MVS-NAT-BATCH or VSE-NAT-BATCH
  Name of the batch Natural nucleus
- MVS-DSN-USER-LOAD or VSE-DSN-USER-LIB
  Name of the load library for batch
- MVS-DSN-ADA-LOAD or VSE-ADA-LIB
  Name of the Adabas load library
- MVS-SVC or VSE-SVC
  SVC number
- MVS-DB-DEVICE or VSE-DB-DEVICE
  Device type

Note:
This list is dynamic and may grow as needed. In BS2000, this is not needed.

The following example may clarify the need for this:

The name of the batch Natural nucleus for SMA itself is not the one which is currently being installed, but it already exists, and most probably has a different name from the one currently being installed.

Copy of datasets from tape to disk:

During execution of command LOAD or when "marking a dataset for copy" within the tape part parameters are needed for allocating and naming the dataset on disk.

The following global parameters are used for this purpose:

- MVS-LIB-GROUP or VSE-LIB-GROUP or BS2-LIB-GROUP
  High level qualifier for dataset names
- MVS-LIB-ALLOC-TYPE
  TRK, CYL or BLKS to be used in the SPACE parameter of the DD-statement
- MVS-LIB-GROUP-VOL or VSE-LIB-GROUP-VOL or BS2-LIB-GROUP-VOL
  Target disk for copying the dataset
- MVS-LIB-GROUP-UNIT or VSE-LIB-GROUP-UNIT
  Device type of this disk.

Note:
For users of versions of SMA before SMA 1.2.1: in SMA 1.1, the global values were taken from the default environments, e.g., from environment OS/MVS or BS2000.

Display Global Parameter

If DI (Display) is entered as a line command in "Modify Global Parameter Values" a screen appears.

Example screen:

```
 10:48:11               *** SYSTEM MAINTENANCE AID ***              1999-06-08
  User:  User_ID             - Display Product Parameter -            ENIPPM11

   Name of parameter  EXPIRATION

   Group ..........  GLOBAL          Operating System  #INTERN
   Description .....
   EXPIRATION-DATE USED IN ALL DD-CARDS FOR DATASETS FROM TAPE.




   Parm value  min .                  max                Format of Parm  A
   Default value ...  99365
   Possible values .



                                                        Change Allowed  Y

   Command ===>
  Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit                                             Canc
```

Saved Jobs

When "Saved Jobs" is selected from the "Administration" screen, the following screen is displayed:

```
 Commands executed.
  16:28:39              *** SYSTEM MAINTENANCE AID ***            1999-06-07
  User:  User_ID                 - Saved Jobs -                   ADSAVM11

  Reposition to Job Group: _____
  Cmd  Job Group          Job       Description              Status
   __   AAAAAA             Report    Installation Guide       Open
   __   AAADB161           I200-JKL  SETUP - JOBS             Submitted
   __   AAADB161           I200-NOP  SETUP - JOBS             Submitted
   __   AAADB25            I200-NOP  SETUP - JOBS             Submitted
   __   AAAJBE             I060-SAT  PARM + LINK BATCH NATURAL Submitted
   __   AAAJBE             I080      PARM + LINK ONLINE NATURAL Submitted
   __   AAAJBE             I080-SAT  PARM + LINK ONLINE NATURAL Submitted
   __   AAAJBE             I080-1    PARM + LINK ONLINE NATURAL Submitted
   __   AAAJBE             I080-2    PARM + LINK ONLINE NATURAL Submitted
   __   AAPFHVSE           I080      PARM + LINK ONLINE NATURAL Open
   __   ABCMTH             I055      ASSEMBLIES OF BATCH NATURAL Submitted
   __   AZ6A               AZ70SM5   NO DESCRIPTION AVAILABLE  Submitted
   __   AZ6A               I080BB    NO DESCRIPTION AVAILABLE  Submitted
   __   AZ6V               I052V     NO DESCRIPTION AVAILABLE  Submitted


  Command ===>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit  --    ++          -     +     Print            Canc
```

The user may enter one of the line commands described below.

- MO.. Modify
  The saved job is displayed. The user can browse through the jobs using PF7 and PF8 to scroll backwards and forwards, print the job, or modify it before submitting it to the operating system for execution. Usage of the editor for modification is explained in Using the Editor and Help Facility.
- SU..Submit
  The saved job is passed to the operating system for execution. The status and successful execution of a job are **not** checked by SMA; this must be done by the user. Within SMA, a job can have the status:
  - OPEN: The job has been saved and has not yet been submitted.
  - SUBMITTED: The job has been submitted. It is possible to submit a job, change it and re-submit it.
- DE.. Delete
  With this command, a job can be deleted manually by the user.
- CO.. Copy
  The COPY command allows the user to copy saved jobs as often as is desired.
- PR.. Print
  The selected job will be printed.

SMA Profile

When "SMA Profile" is selected from the "Administration" screen, the following screen is displayed:

```
 Modify the values you want to be changed.
   13:05:24                  *** SYSTEM MAINTENANCE AID ***              1999-03-10
   User:  User_ID                    - SMA Profile -                      ADPRFM11


   Printing Defaults - Page Size ....................  59
                       Printer ID ...................  CMPRT 01

   Language Code ...................................  1  (1=English, 2=German)

   Confirm SAVE ....................................  Y  (Y,N)

   Display SMA LOGO menu ...........................  Y  (Y,N)


   Changes are to be valid during this session only ..  N  (Y/N)




   Command ===>
  Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit                                                   Canc
```

The following specifications can be entered or changed:

- Page size for the printouts
- Printer ID for reports and print functions
- Language code:

  1 English

  2 German

- Confirm SAVE in the editors and in the modify parameter screens
- Display SMA LOGO when starting

The values entered by the user are either valid for this session only (this is the default) or are stored in the SMA data file permanently if "Changes are to be valid during this session only?" is answered with "N".

Tabload

When "Tabload" is selected from the "Administration" screen, the following window appears:

```
 Enter a command, a direct command or press a PF-key.
   16:30:11              *** SYSTEM MAINTENANCE AID ***              1999-06-07
   User:  User_ID                - Administration -                 ADMENM11

     Administration Task    Description
     ------------------     ---------------------------------------------------
   _ Global Paramet +------------------------------------+ and Commit
   _ Saved Jobs     !                                    !
   _ SMA Profile    !           SMA Table Loader         !
   x Tabload        !                                    ! able data
   _ Unused Product ! Select area for further processing:! any environment
   _ Unused Tapes   !                                    ! ted products
                    !        _    Submit TABLOAD job     !
                    !                                    !
                    !        _    Modify TABLOAD job     !
                    !                                    !
                    +------------------------------------+


   Command ===>
  Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit                                              Canc
```

The following specifications can be entered or changed:

- Submit TABLOAD job to invoke the SMA Table Loader for recognition of a new tape by SMA. A window requesting submission parameters appears.
- Modify TABLOAD job for maintenance of the job text. When this function is selected, the editor screen appears.

Unused Products

When "Unused Products" is selected from the "Administration" screen, the list of products not installed is displayed.

Example screen:

```
  There is only 1 page available.
   16:33:07              *** SYSTEM MAINTENANCE AID ***          19994-06-07
   User:  User_ID               - Unused Products -             ADUPRM11

  Reposition to Product: _____
   M  Prod.  Op.Sys.  Description                     Removed from Envir.
   _  ADL221 OS/MVS   ADABAS BRIDGE FOR DL/I          1999-02-04 / TEST
   _  ETP121 OS/MVS   ENTIRE ASYNCHRONOUS TRANSACTION SERVER 1999-01-14 / TEST
   _  REV342 OS/MVS   REVIEW DATABASE                 was never installed
   _  XNP125 OS/MVS   XNP LIMITED LIBR. (NO INSTALL STEPS)  1999-01-07 / APPL











    Command ===>
   Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit  --    ++         -     +    Print              Canc
```

In the list of products displayed, the user may select the product(s) to be deleted by SMA. Candidates for deletion are the products which have been superseded by later versions from Software AG in all environments.

The following SMA table data is deleted:

- product description
- linkage of products into environment
- product datasets
- ZAPs and source changes belonging to deleted product datasets.

After marking one or several products with an "X", the user is prompted to confirm the deletion.

Unused Tapes

When this function is selected from the "Administration" screen, the list of unused tapes is displayed.

Example screen:

```
 Mark item(s) for deletion.
   16:34:06                 *** SYSTEM MAINTENANCE AID ***              1999-06-07
   User:  User_ID                   - Unused Tapes -                    ADUBAM11

   Reposition to Volume: _____
    M   Volume  Description                                         Date Received
    _   T18129  Test tape                                            1994-01-07












    Command ===>
  Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit  --    ++           -     +     Print              Canc
```

In this list, the user may mark one or several tapes for deletion. Since only the tapes are shown for which all product datasets have already been deleted, the only information remaining for deletion is the tape record and the "READ ME" texts for these tapes.

After marking one or several tapes with an "X", the user is prompted to confirm the deletion.